IN THE CLAIMS

Please amend the claims as follows:

- 1. (original) A method for encrypting a digital data stream in a transmission system that uses orthogonal codes for the modulation, wherein a k^{th} transmitter constructs a k^{th} connection for the k^{th} digital data stream $(d^{(k)})$, for the encryption, the digital data stream $(d^{(k)})$ of the transmitter is mixed with a spreading code that is assigned to this k^{th} connection, different spreading codes $(g_1^{(k)}, g_2^{(k)} \dots g_H^{(k)})$ from a defined set (G_i) are assigned and through the mixing a transmission signal $(s^{(k)})$ is produced, characterized in that the degree of encryption of the k^{th} digital data stream $(d^{(k)})$ is increased during the k^{th} connection through the allocation of a sequence for the application of the different spreading codes $(g_1^{(k)}, g_2^{(k)} \dots g_H^{(k)})$ and/or a hop interval (I_{hop}) .
- 2. (original) A method as claimed in claim 1, characterized in that a permutation function (S_i) defines the sequence of the application of the content of a set of spreading codes (G_i) by stating the position $(\{p\ 1,\ p\ 2\ \dots\ p\ M\})$.
- 3. (original) A method for encrypting a digital data stream that is to be transmitted, wherein after the connection set-up,

necessary parameters for the transmission and recovery are transmitted, characterized by the steps:

- communication of an encryption key (200) and thus:
 - establishment (210) of a permutation function (S_i) ,
 - establishment (220) of a set (Gi) of spreading codes, and/or
 - establishment (230) of a hop interval (Ihop),

wherein the last three steps mentioned (210, 220, 230) can be carried out in any order.

- 4. (original) A method for encrypting a digital data stream, characterized by the execution of a first permutation procedure (400) which contains a loop with the following steps:
- setting (410) of an interval (n) to "1";
- waiting (420) for the end of a predefined hop interval (Ihop);
- increasing (430) the interval (n) by the value 1;
- carrying out a comparison (440) to see whether the current value of the interval (n) is greater than the total number (M) of the elements of a permutation function (S_i) which states the positions of the spreading code (g_n) of a set (G_i) of spreading codes that is to be used for encrypting the digital data stream, wherein alternatively the following takes place:
- if the comparison has a positive result: resetting of the interval (n) to "1";.

- if the comparison has a negative result: equating the current spreading code (g_n) with the spreading code (g_{p_n}) that stands at the position (p_n) stipulated by the permutation function (S_i) .
- 5. (currently amended) A device (1) for carrying out a method as claimed in any one of the preceding claims claim 1, characterized in that the device has a first code generator (2) that creates the respectively current spreading code (g_n) .
- 6. (original) A method for decoding a received digital data stream that was sent encrypted, characterized by the execution of a second permutation procedure (800) that contains a loop with the following steps:
- setting (810) an interval (n) to "1";
- waiting (820) for the end of a predefined hop interval (Ihop);
- increasing (830) the interval (n) by the value 1;
- carrying out a comparison (840) to see whether the current value of the interval (n) is greater than the total number (M) of the elements of a permutation function (S_i) which states the positions of the spreading code (g_n) of a set (G_i) of spreading codes that is to be used for decoding the encrypted digital data stream, wherein alternatively the following takes place:

- if the comparison has a positive result: resetting of the interval (n) to "1";
- if the comparison has a negative result: equating the current spreading code (g_n) with the spreading code (g_{p_n}) that stands at the position (p_n) stipulated by the permutation function (S_i) .
- 7. (original) A device (3) for carrying out a method as claimed in claim 6, characterized in that the device (3) has a second code generator (4) that produces the current spreading code (g_n) .
- 8. (currently amended) A transmission system that uses orthogonal codes for the modulation, with a device for encrypting a digital data stream, in particular a device (1) as claimed in claim 5, wherein the digital data stream (d^(k)) is mixed with a spreading code, and with a device for decoding a digital data stream that was transmitted encrypted, in particular a device (3) as claimed in elaim 6sent encrypted, characterized by the execution of a second permutation procedure (800) that contains a loop with the following steps:
- setting (810) an interval (n) to "1";
- waiting (820) for the end of a predefined hop interval (I_{hop}) ;
- increasing (830) the interval (n) by the value 1;

- carrying out a comparison (840) to see whether the current value of the interval (n) is greater than the total number (M) of the elements of a permutation function (S_i) which states the positions of the spreading code (g_n) of a set (G_i) of spreading codes that is to be used for decoding the encrypted digital data stream, wherein alternatively the following takes place:
- if the comparison has a positive result: resetting of the interval (n) to "1";
- if the comparison has a negative result: equating the current spreading code (g_n) with the spreading code (g_{p-n}) that stands at the position (p-n) stipulated by the permutation function (S_i) , characterized in that it has means for
- carrying out encryption,
- carrying out decoding of a digital data stream that was transmitted encrypted.
- 9. (original) Use of one of the methods mentioned above in a cordless or line-based network.